•	PCT/EP2004/008710
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C08F210/06 C08F4/642	
According to International Patant Classification (IPC) or to both national classification and IP	c
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classification symbols) IPC 7 C98F	
Documentation searched other than minimum documentation to the extent that such documentation th	ents are included in the fields searched
Electronic data base consulted during the international search (name of data base and, who	ere practical, search terms used)
EPO-Internal, WPI Data, PAJ, CHEM ABS Data	
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
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X EP 0 644 206 A (SHOWA DENKO KK) 22 March 1995 (1995-03-22) examples 1-23 tables 1-4 claims 1-10	1-6,8,9, 17
X US 2003/092563 A1 (GAO XIAOLIANG ET A 15 May 2003 (2003-05-15) examples \$1,\$2,\$6,\$8,\$11,\$13 examples 2,3,15,22,27,31 table 2	1-6,8,9, 17,19,20
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X Further documents are listed in the continuation of box C. X P	ratent family members are listed in annex.
° Special categories of cited documents : "T" later di	ocument published after the international filing date
"A" document defining the general state of the art which is not cited considered to be of particular relevance "E" earlier document but published on or after the international illing date can: "I" document which may throw doubts on priority claim(s) or	lority date and not in conflict with the application but to understand the principle or theory underlying the
which is crited to establish the publication date or anomal citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means exhibitions or other means exhibition or other means exh	nent of particular relovance; the claimed invention to to considered to involve an inventive step when the inventive combined with one or more other such docuts, such combination being obvious to a person skilled eart. The person skilled to a person skilled to a person skilled to a person skilled to a crt.
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	rtzed officer
	Gamb, V

C (Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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X	ISHII S ET AL: "ZIRCONIUM COMPLEXES HAVING PHENOXY/CYCLOALKYLIMINE CHELATE LIGANDS FOR THE POLYMERIZATION OF ETHYLENE FOR VINYL-TERMINATED LOW MOLECULAR WEIGHT POLYETHYLENES" CHEMISTRY LETTERS, CHEMICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 7, 2002, pages 740-741, XP009007498 ISSN: 0366-7022 the whole document	1-7,13, 15,17-20
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(CA 2 243 726 A1 (NOVA CHEMICALS LTD) 21 January 2000 (2000-01-21) page 18 page 17 - page 31; examples 1-16 page 37; tables c1,c2 claims 1-17	1-4,6,7, 17,19,20
(WO 02/16374 A (BOREALIS TECHNOLOGY OY; CAMPBELL, NEIL; ANDELL, OVE; MAARANEN, JANNE;) 28 February 2002 (2002-02-28) page 12 examples 5-10,12,13,15,16,19 page 43 - page 44; tables 1-5 claims 1-25	1-4,6,7, 11,12,17
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Χ .	EP 0 940 408 A (BAYER AKTIENGESELLSCHAFT) 8 September 1999 (1999-09-08) examples 3,6,8,10-12 examples 14-25 claims 1-13	1-4,6, 10-12,17
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Х	US 6 555 634 B1 (KLOSIN JERZY ET AL) 29 April 2003 (2003-04-29) examples 1-16 claims 1-8 column 11, line 15 - line 40	1-4,6, 11,12,17
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
S. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Fluie 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
$\overline{\mathbf{X}}$ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6 (partly), 8-9 (partly), 17 (partly)

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is not defined as in claims 7,10,11,13 or 15. Polymer obtainable with such a process.

2. claims: 1-6 (partly), 7, 8-9 (partly), 17 (partly)

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is as defined in claim 7. Polymer obtainable with such a process.

3. claims: 1-6 (partly), 8-9 (partly), 10, 12 (partly), 17 (partly)

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is as defined in claim 10. Polymer obtainable with such a process.

4. claims: 1-6 (partly), 8-9 (partly), 11, 12 (partly), 17 (partly)

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is as defined in claim 11. Polymer obtainable with such a process.

5. claims: 1-6 (partly), 8-9 (partly), 13, 14, 17 (partly), 18-20

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is as defined in claim 13. Polymer obtainable with such a process.

6. claims: 1-6 (partly), 8-9 (partly), 15, 16, 17 (partly)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Polymerisation process in the presence of an aluminium cocatalyst and a catalyst comprising a composition of a metal-organic reagent, a spectator ligand and optionally a hydrocarbylating agent where the spectator ligand is as defined in claim 15. Polymer obtainable with such a process.

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